



PATENT

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Date: 7/19/04
By: Richard A. Parkoff

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REVOCATION AND SUBSTITUTION OF POWER OF ATTORNEY

Dear Sir:

I hereby revoke all previous powers of attorney or authorizations of agent given in the patent applications listed below and hereby appoint All Practitioners at Customer Number 08933 to prosecute all applications listed below and to transact all business in the United States Patent and Trademark Office connected therewith.

I hereby appoint the following additional attorneys, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Chien W. Chou
Simon Lu

Registration Number: 41,672
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PH11207452.1

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CERTIFICATE UNDER 37 CFR 3.73(b)

Taiwan Semiconductor Manufacturing Co., Ltd., a Corporation

(Name of Assignee)(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent applications identified below by virtue of an assignment from the inventor(s) of the patent applications:

Serial No.	Filing Date	Assignment Information
09/785,114	2/20/2001	Assignment recorded in the Patent and Trademark Office at Reel 011598, Frame 0438
09/945,432	9/4/2001	Assignment recorded in the Patent and Trademark Office at Reel 012151, Frame 0558
09/993,067	11/14/2001	Assignment recorded in the Patent and Trademark Office at Reel 012327, Frame 0486
10/040,042	11/7/2001	Assignment recorded in the Patent and Trademark Office at Reel 012472, Frame 0229
10/042,573	1/9/2002	Assignment recorded in the Patent and Trademark Office at Reel 012486, Frame 0878
10/043,483	1/11/2002	Assignment recorded in the Patent and Trademark Office at Reel 012486, Frame 0805
10/086,258	3/4/2002	Assignment recorded in the Patent and Trademark Office at Reel 012682, Frame 0716
10/140,648	5/7/2002	Assignment recorded in the Patent and Trademark Office at Reel 012902, Frame 0476
10/163,709	6/6/2002	Assignment recorded in the Patent and Trademark Office at Reel 012987, Frame 0814
10/170,247	6/12/2002	Assignment recorded in the Patent and Trademark Office at Reel 013002, Frame 0822
10/176,855	6/21/2002	Assignment recorded in the Patent and Trademark Office at Reel 013034, Frame 0170
10/187,705	7/2/2002	Assignment recorded in the Patent and Trademark Office at Reel 013082, Frame 0883
10/197,048	7/17/2002	Assignment recorded in the Patent and Trademark Office at Reel 013129, Frame 0317
10/205,791	7/26/2002	Assignment recorded in the Patent and Trademark Office at Reel 013148, Frame 0401
10/213,586	8/7/2002	Assignment recorded in the Patent and Trademark Office at Reel 013179, Frame 0574
10/222,360	08/16/2002	Assignment recorded in the Patent and Trademark Office at Reel 013936, Frame 0305
10/236,535	9/6/2002	Assignment recorded in the Patent and Trademark Office at Reel 009698, Frame 0404
10/238,708	9/10/2002	Assignment recorded in the Patent and Trademark Office at Reel 013296, Frame 0365
10/251,326	9/20/2002	Copy of Assignment attached
10/261,289	09/30/2002	Assignment recorded in the Patent and Trademark Office at Reel 013360, Frame 0977
10/268,587	10/10/2002	Assignment recorded in the Patent and Trademark Office at Reel 013384, Frame 0722
10/270,973	10/15/2002	Copy of Assignment attached
10/283,892	10/30/2002	Assignment recorded in the Patent and Trademark Office at Reel 011429, Frame 0641

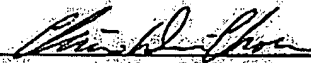
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10/292,773	11/12/2002	Assignment recorded in the Patent and Trademark Office at Reel 012593, Frame 0773
10/310,314	12/5/2002	Assignment recorded in the Patent and Trademark Office at Reel 013558, Frame 0278
10/323,098	12/18/2002	Assignment recorded in the Patent and Trademark Office at Reel 011672, Frame 0361
10/353,111	1/28/2003	Assignment recorded in the Patent and Trademark Office at Reel 013715, Frame 0359
10/353,421	1/29/2003	Assignment recorded in the Patent and Trademark Office at Reel 013722, Frame 0384
10/371,842	2/20/2003	Assignment recorded in the Patent and Trademark Office at Reel 013805, Frame 0302
10/427,286	5/1/2003	Assignment recorded in the Patent and Trademark Office at Reel 014035, Frame 0966
10/437,373	5/13/2003	Assignment recorded in the Patent and Trademark Office at Reel 011226, Frame 0344
10/462,287	6/16/2003	Assignment recorded in the Patent and Trademark Office at Reel 012154, Frame 0573
10/613,606	7/3/2003	Assignment recorded in the Patent and Trademark Office at Reel 012582, Frame 0014
10/623,912	7/21/2003	Assignment recorded in the Patent and Trademark Office at Reel 014318, Frame 0163
10/689,430	10/20/2003	Assignment recorded in the Patent and Trademark Office at Reel 014622, Frame 0430
10/700,779	11/04/2003	Assignment recorded in the Patent and Trademark Office at Reel 014670, Frame 0664

The undersigned has reviewed all the documents in the chain of title of the patent applications identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: June 23, 2004 By: 
 Name: Chien-Wei Chou
 Title: Director, Intellectual Property Division